

SECTION 1011
TURF GRASS SEEDING

1011.1 GENERAL:

Work under this section consists of preparing all areas indicated on the plans for turf grass seeding and furnishing and installing all seed, fertilizer and soil amendments as specified herein and on the plans, or as authorized by the ENGINEER.

1011.2 REFERENCES:

1011.2.1 This publication:

Section 1001 Landscaping Irrigation

1011.3 MATERIALS:

1011.3.1 SEED:

1011.3.1.1 Turf grass seed shall consist of Falcon Fescue, Pennfine Perennial Rye, and Adelphi Blue Grass. The mixing ratio of the above listed grasses shall be 1:1:1 by weight. The ENGINEER shall receive all labels from seed bags for verification. Purity of seed shall not be less than 98% and germination shall not be less than 85%.

1011.3.1.2 Each bag of seed shall be sealed and labeled by the seed dealer in accordance with Federal Seed Laws and New Mexico Department of Agriculture Labeling Laws. This includes: variety, kind of seed, lot number, purity, germination, percent crop, percent inert, percent weed (including noxious weeds), origin, test data and net weight. Federal Seed laws require that analysis shall be no older than 5 months for seed shipped interstate and no older than 9 months for seed shipped intra-state.

1011.3.2 FERTILIZER: Fertilizer shall be granular form starter fertilizer with a guaranteed analysis of 18-24-16.

1011.3.3 ORGANIC AMENDMENTS: Organic amendment shall consist of well aged screened bark fines from coniferous trees as available from Western Agricultural Products Company. Material shall be 1/2" minus with 90% passing a 1/4" screen. Amendment pH shall not exceed 6.5. Salinity shall not exceed 1.5 mnhos/cm. Percentage of organic matter shall not be less than 80% tested by simple combustion.

1011.4 SEED BED PREPARATION:

1011.4.1 PREPARATION: Prior to start of soil preparation all finish grades shall be established and approved as meeting the requirements of the grading plan. Apply a uniform 1" layer of organic amendment and 4 lbs. of starter fertilizer per each 1000 square feet to the entire area to be seeded. After application of organic amendment and starter fertilizer all areas to be seeded shall be thoroughly rototilled to a minimum depth of 6 inches. After

rototilling is complete at cross directions, drag to an even grade, then roll for firmness. Before seeding, the finish grade shall be brought to a firm, even surface, free from stones or lumps in excess of one inch diameter, and shaped to provide drainage. The finish grade shall be inspected and approved by the ENGINEER prior to seeding.

1011.5 SEEDING FOR TURF

1011.5.1 GENERAL

1011.5.1.1 The seeding rate shall be 250 lbs. PLS per acre or as shown on the plans. The specific mix shall be uniformly applied over the area to be seeded.

1011.5.1.2 CONTRACTOR'S vehicles and other equipment shall not travel over the seeded areas. If, as determined by the ENGINEER, rain or some other factor occurs over prepared surfaces prior to seeding which prevents seeding to the proper depth, the CONTRACTOR shall again prepare the seed bed without additional compensation.

1011.5.2 TIME OF SEEDING: (SEEDING SEASON) Turf grass seeding shall only be accomplished in the Spring from April 1 through May 30 or in the Fall from August 15 through September 30. If seeding is not accomplished during the "time of seeding" the CONTRACTOR shall accomplish the seeding at the "time of seeding" during the next calendar year. Extension of the CONTRACT to meet the "time of seeding" shall be accomplished at no additional expense to the OWNER.

1011.5.2.1 All soil slopes which have been completed prior to the seeding season shall be seeded immediately after the opening of the current seeding season.

1011.5.2.2 All soil slopes which are completed during the seeding season shall be seeded that same season.

1011.5.3 DRILL SEEDING: All seed shall be drilled in cross directions, where practical, with 50% of the seed applied in each direction. The second pass of the seeder when seeding in cross directions shall be across the slope. In areas where seeding in cross directions is impractical, seeding shall be accomplished by drilling and shall be across the slope. Seed shall be planted approximately 1/4 inch deep, with a maximum depth of 1/2 inch unless otherwise specified on the plans. The distance between the drilled furrows shall not be more than 2 inches. Seeding shall be done with grass seeding equipment in good working order with double disc openers, depth bands, drop tubes, packer wheels or drag chains, rate control attachments, seed boxes with agitators for trashy seed.

1011.5.4 BROADCASTING: The seed will be broadcast by a mechanical spreader at a rate as specified or as indicated on the plans. Seeds shall be to a minimum depth of 1/4" depth and no more than a 1/2 of an inch. Broadcasting shall only be used when specified on the plans and/or approved by the ENGINEER.

1011.6 WATERING

1011.6.1 PERMANENT IRRIGATION SYSTEMS FOR TURF GRASSES: Seeded areas having a permanent irrigation system as specified on the plans will be watered by said system. Watering of the seed will be the responsibility of the CONTRACTOR. All seeded areas shall be watered immediately after completion of seeding, keeping the top two inches of soil evenly moist until seed has uniformly germinated and grown to a height of two inches.

1011.7 PROTECTION AND MAINTENANCE FOR SEEDED TURF: Protect and maintain all turf seeded areas until a dense uniform stand of grass has been established, which shall be defined as when the density of the turf is such that there are no bare areas of soil greater than three inches in diameter and the majority of the seeded area has no bare areas whatsoever. Additionally, the grass shall have been cut a minimum of three times at a height of 2 inches. After completion of second mowing, apply an additional 4 pounds per 1000 square feet of starter fertilizer.

1011.7.1 WATER: The CONTRACTOR shall be responsible for the cost of water during seeding and maintenance of seeded turf until final acceptance.

1011.8 INSPECTION FOR SEEDED TURF GRASSES:

1011.8.1 The following inspections shall be the minimum required inspections to seeded turf grass during the course of construction. Additional inspections shall be made at any time at the discretion of the ENGINEER or OWNER.

1011.8.2 It shall be the responsibility of the CONTRACTOR to notify the ENGINEER, in writing, 48 hours in advance of each required inspection.

1011.8.3 The sequence of required inspections shall not be changed from the sequence listed below. The CONTRACTOR shall not proceed with work of the next sequence without written approval of the work of the previous sequence. Payments will not be approved for items which have not been inspected and approved in writing.

1011.8.4. Automatic irrigation system where required shall be installed, tested, and approved in accordance with Section 1001, if required.

1011.8.5 Each phase of soil preparation shall be inspected in process.

1011.8.6 Finish grade shall be inspected.

1011.8.7 Seed shall be inspected prior to seeding.

1011.8.8 Seeded area shall be inspected after completion.

1011.8.9 Seeded area shall be inspected at the end of the maintenance period.

1011.8.10 Final inspection of the project and acceptance.

1011.9 MEASUREMENT AND PAYMENT

1011.9.1 MEASUREMENT: The measurement of turf grass seeding shall be by the acre.

1011.9.2 PAYMENT: Payment shall be made at the contract unit price per acre of turf grass seeding complete in place, which shall include the seed, fertilized, area preparation, seeding, watering, and maintenance.